BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 2nd Main and Both side Cross Road in Ward No. 06 Byatarayanapura Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							Estimate Cost Rs.		4000000.00
1	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/	cum							
	Desilting of Drain								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00	0.65	0.45	48.56		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00	0.60	0.45	79.38		
							127.94	86.92	**11120.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	KSRRB 300-1. Earth work excavation by manual means in Hard Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.2/ PWD SR 2015-16	Cum							
	For Flaging Course Drain								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00	0.25	0.30	12.45		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00	0.25	0.30	22.05		
	Culverts		11	8.00	2.10	1.20	221.76		
							256.26	115.56	**29613.00**
	Basic Rate	107.00							
	Area Weightage @ 8%	8.56							
	Total	**115.56**							
3	Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-	Sqm							
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00	1.65		273.90		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00	1.65		485.10		
							759.00		
	Deduct 20% Missing Slabs						151.80		
							607.20	65.72	**39905.00**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	efixing stone slabs of drains and pointing in .M (1:3) Page No. 25/ Item No. 5.33/ PWD R 2016-17	Sqm							
			Qty Vide Item No.3				607.20		
							607.20	**80.56**	**48916.00**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**							
	For Missing slabs (20%)		Missing Slabs				151.80		
							151.80	665.68	**101050.00**
	Basic Rate	628.00							
	Area Weightage @ 6%	37.68							
	Total	**665.68**							
6	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS	**Cum**							
	For Raising Course Drain								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2X2	83.00	0.25	0.10	8.30		
	1st Main Hegadenagara Westren Side 2nd Main		2X2	147.00	0.25	0.10	14.70		
	Culverts		11	8.00	2.10	0.15	27.72		
							50.72	5159.02	**261665.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		11X2	8.00	0.60	0.45	47.52		
							47.52	4438.22	**210904.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	**Sqm**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	lverts		11X2	8.00	0.50	0.45	39.60		
							39.60	**5305.30**	**210090.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	**Sqm**							
	Culverts		11	8.00	0.60		52.80		
	For Sides		11X2	8.00	0.23		40.48		
			11X2	1.65	0.23		8.35		
							101.63	**271.36**	**27578.00**
	Basic Rate	**256.00**							
	Area Weightage @ 6%	15.36							
	Total	**271.36**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	**cum**							
	Culverts		11X2	8.00	0.50	0.10	8.80		
	Vent Bed		11	8.00	0.60	0.10	5.28		
	For Raising Course Drain Coaping								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2X2	83.00	0.20	0.10	6.64		
	1st Main Hegadenagara Westren Side 2nd Main		2X2	147.00	0.20	0.10	11.76		
	For Kerb Bottom								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00	0.25	0.10	4.15		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00	0.25	0.10	7.35		
							43.98	5598.92	**246241.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
11	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		11X2	8.00		0.50	88.00		
							88.00	102.82	**9048.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**102.82**							
	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS	**Cum**							
	Culverts		11	8.00	1.80	0.23	36.43		
							36.43	6371.66	**232132.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
13	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications Specification No. KBS 4.6.3	**Qtl**							
	0.80Ton/Cum		0.080	36.43			**2.91**	59413.00	**173163.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
14	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications Page No. 24/ Item No	Sqm							
	For Raising Course Drain								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2X2	83.00		0.40	132.80		
	1st Main Hegadenagara Westren Side 2nd Main		2X2	147.00		0.40	235.20		
							368.00	993.22	**365505.00**
	Basic Rate	937.00							
	Area Weightage @ 6%	56.22							
	Total	**993.22**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	29(b) Providing and fixing pre cast solid ement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/	Sqm							
	For Raising Course Drain								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00			166.00		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00			294.00		
							460.00		
					l e 460/0.45		1022.22		
							1022.22	331.78	**339153.00**
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
16	KSRB 15-17.5: Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item No. 15.59 / PWD SR 2016-17	**Sqm**							
	Kerb Stone Painting		2	83.00		0.30	**49.80**		
	Kerb Stone Painting		2	147.00		0.30	**88.20**		
							138.00	**43.46**	**5997.00**
	Basic Rate	41.00							
	Area Weightage @ 6%	2.46							
	Total	**43.46**							
17	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with **enamel paint** to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 119/ Item No. 15.60.1 / PWD SR 2016-17								
	1st Main Hegadenagara Westren Side 1st Main Balance Portion		2	83.00		0.30	49.80		
	1st Main Hegadenagara Westren Side 2nd Main		2	147.00		0.30	88.20		
							138.00	**89.04**	**12288.00**
	Basic Rate	84.00							
	Area Weightage @ 6%	5.04							
	Total	**89.04**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
18	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	For Raising Course Drain			83.00	1.50		249.00		128102.00
	1st Main Hegadenagara Westren Side 2nd main		2	518.00	0.90		932.40		
	— 11 — 1st main Balance postion		2	147	1.50	441	932.40	1856.67	1731159.00
	Data Rate	**1856.67**				total	690.00		
~~16~~ 19	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum					382.20		28092.00
			Qty. Vide Item No. 1				**362.17**		
							362.17	73.12	**26482.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For loading	68.00							
	Total	**73.12**							3633562.00
20							Grand Total		**3667969.00**
~~17~~	For 8% KRIDL Charges						290685		**293438.00**
~~18~~ 21	For 1% Labour Cess + Third party Inspection charges						3633.6+3633.6		**36680.00**
22 19	Miscesallaneous Charges	L/S						3081	**1913.00**
									4000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Executive Engineer 18/04
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

18/04

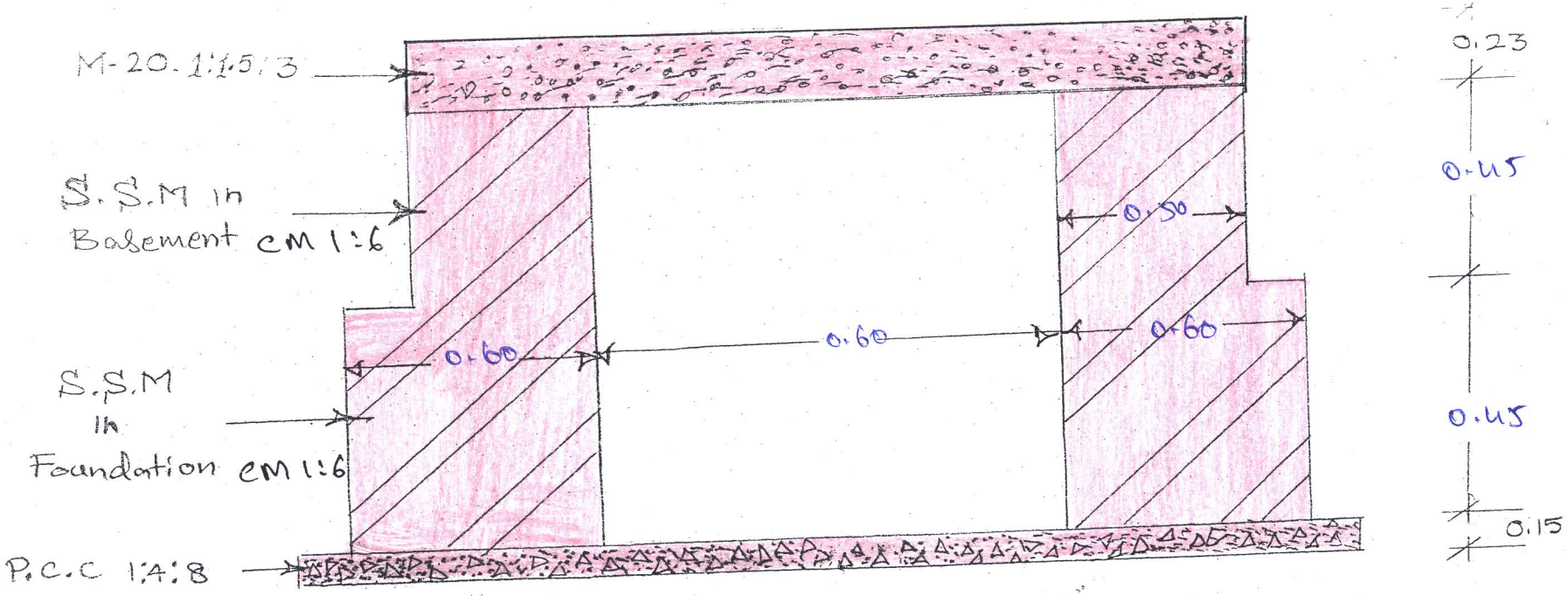
Technical Sanction
Accorded For 40.00 lakh Rs
Head of A/C P3176
CER NO : 22 Dt:. 19/04/17

TA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs. 40.00 lakhs
Rupees forty lakhs only
Under P-3176
Register as EE( )
Subject to conditions contained in
enclosed memo EE( ) No. Dt.
Dt. Executive Engineer
JC(Y)PA/AS/16/17-18
dated 18-4-2017 Rs. 40.00 lakh

Joint Commissioner
(Yelahanka Zone)
BBMP Bengaluru-92

Improvements of Drains and Construction of Culverts in Hegadenagara Westren Side 2nd Main and Both side Cross Road in Ward No. 06 Byatarayanapura Sub Division



CROSS SECTION OF CULVERT